

Viet Nguyen's Blog: RHQ Storage node baselines

Posted by [Viet Nguyen](#) May 1, 2014

Test Setup

Storage Node VM:

- 2 Virtual CPUs - Westmere E56xx/L56xx/X56xx (Nehalem-C) 2.4MHz
- 15GB HD
- 4GB RAM

JON 3.2.GA build

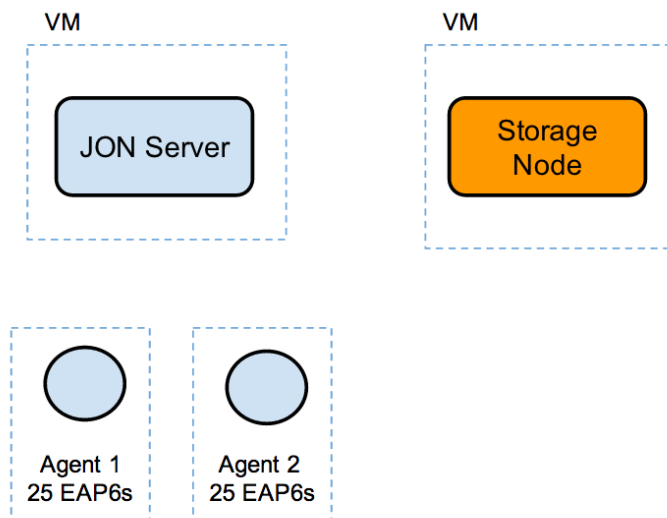
2 Agents x 25 EAP 6's

Metric tweaks

update rhq_measurement_def set default_on=true, default_interval=30000 where default_interval<=2400000; update rhq_me

Topology

Storage node runs on its own VM



Metric counts

Agent	Committed Res	Total metrics collected in 48hrs	Avg Metrics/min	Calculated metrics/hr (avg/min x 60)
one	2,959	20,044,835	6,958	417,480

two	2,960	20,342,883	7,076	424,560
			Total	842,040

Storage Node Total Disk usage *

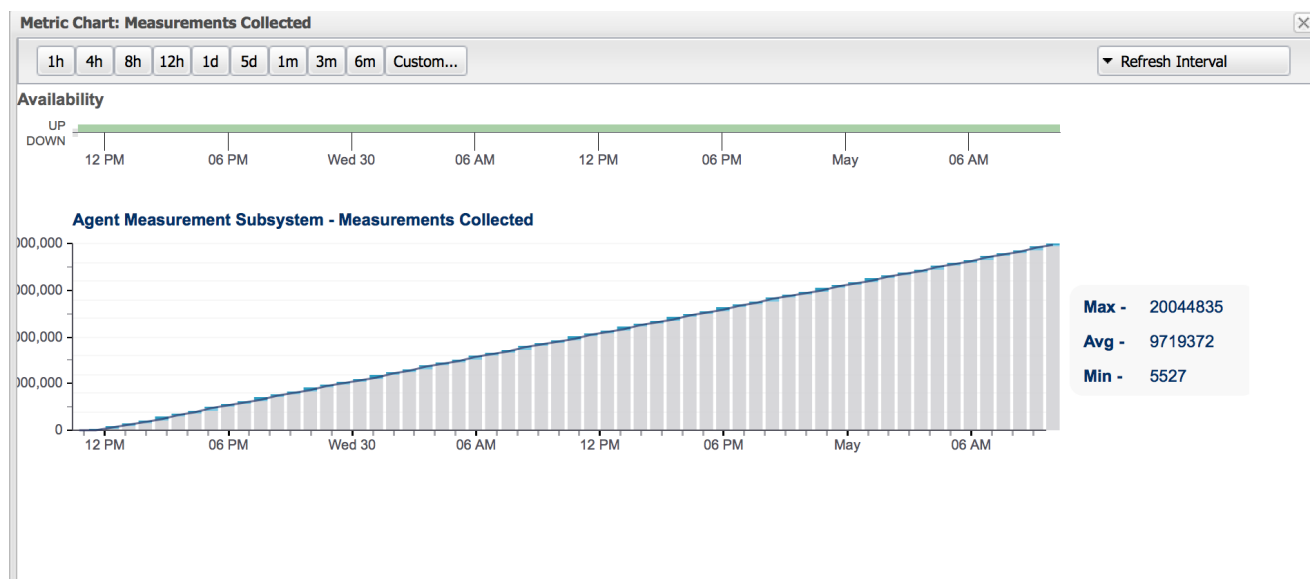
Day 1: 1.6GB

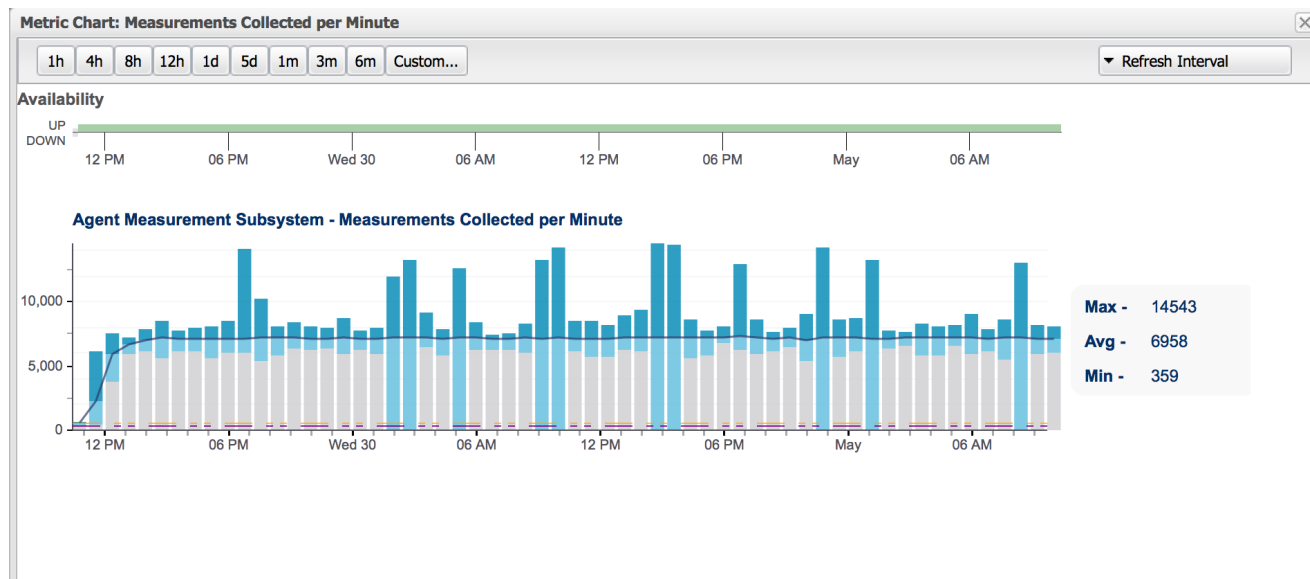
Day 2: 0.8GB

* I obtained these values by taking the differences between the start and end of day of root disk's Free Space metric (Platform -> File Systems -> /)

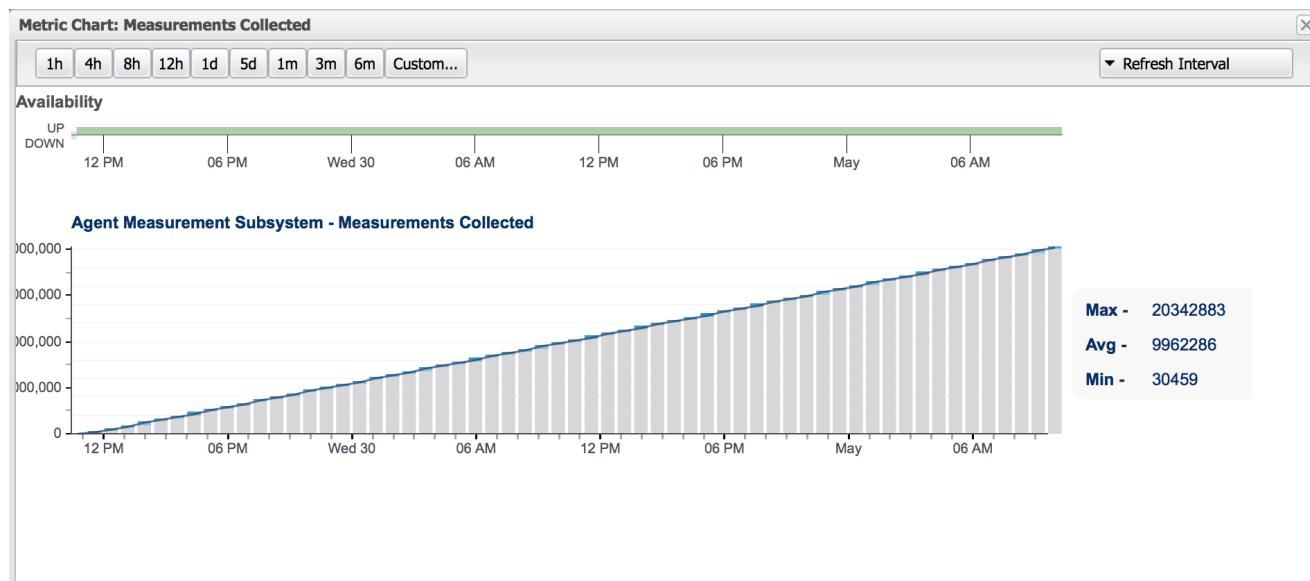
The following charts show various data points for 48 hour period

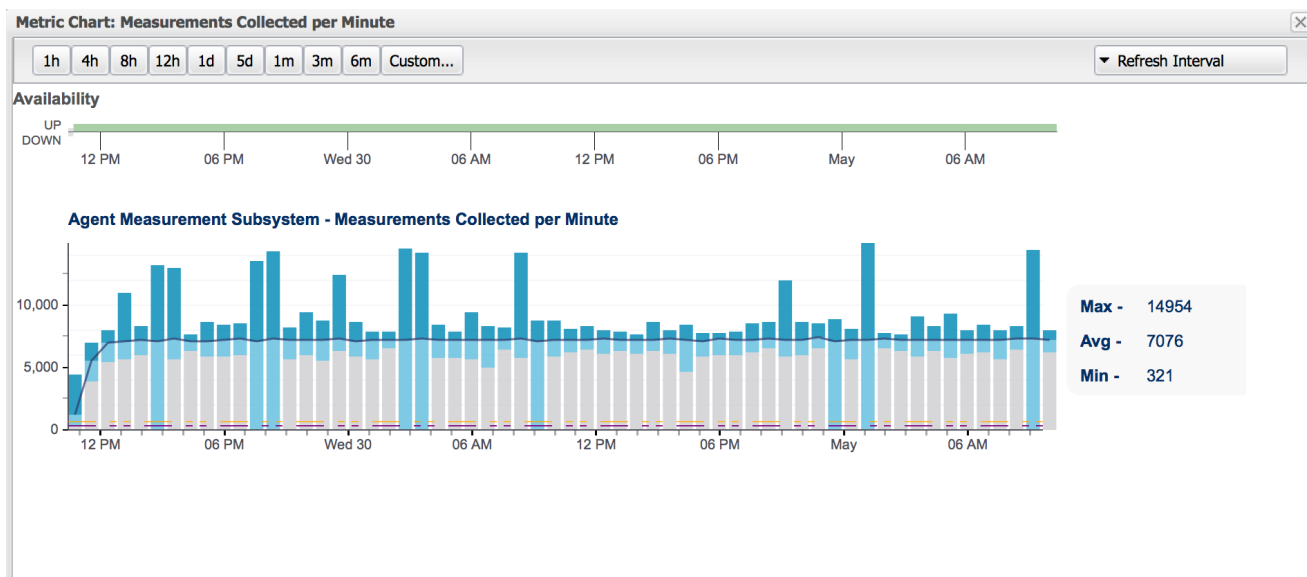
Agent 1



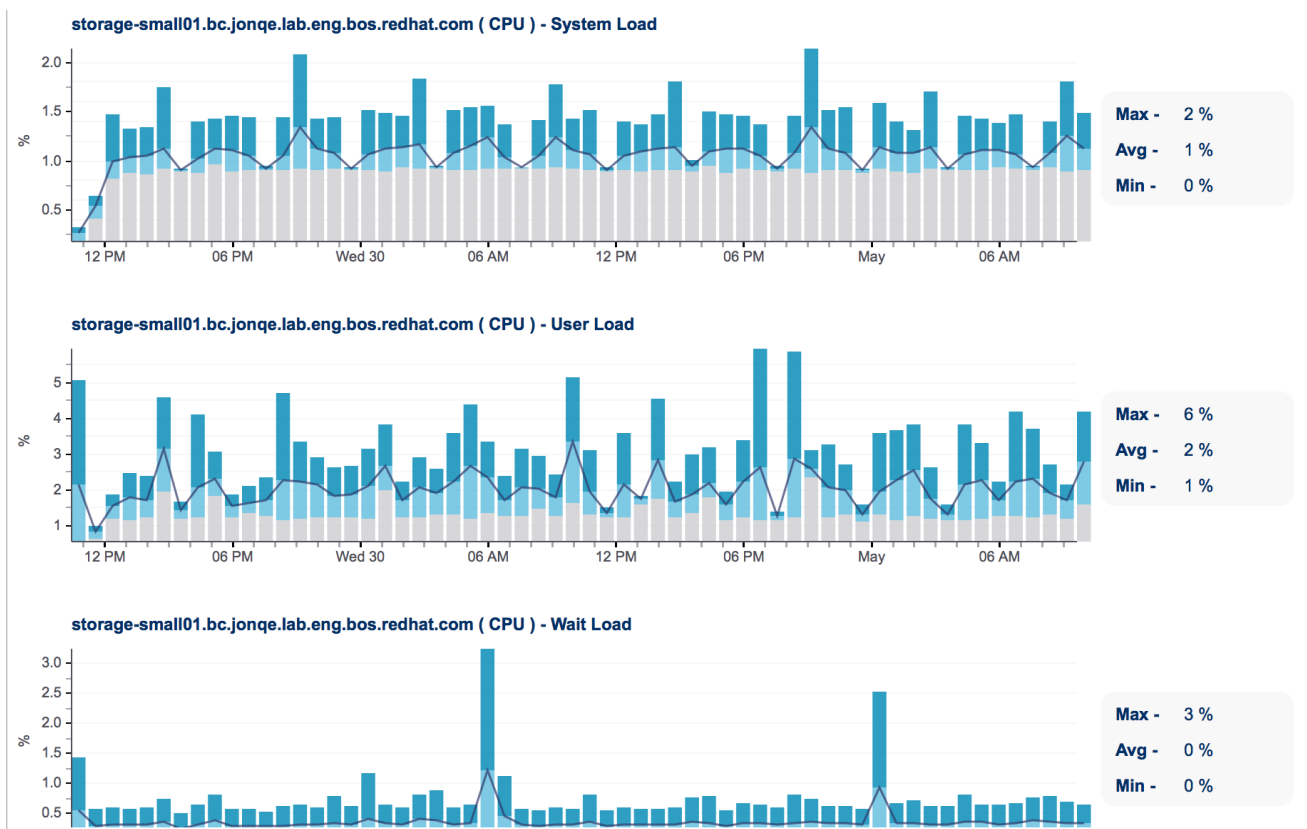


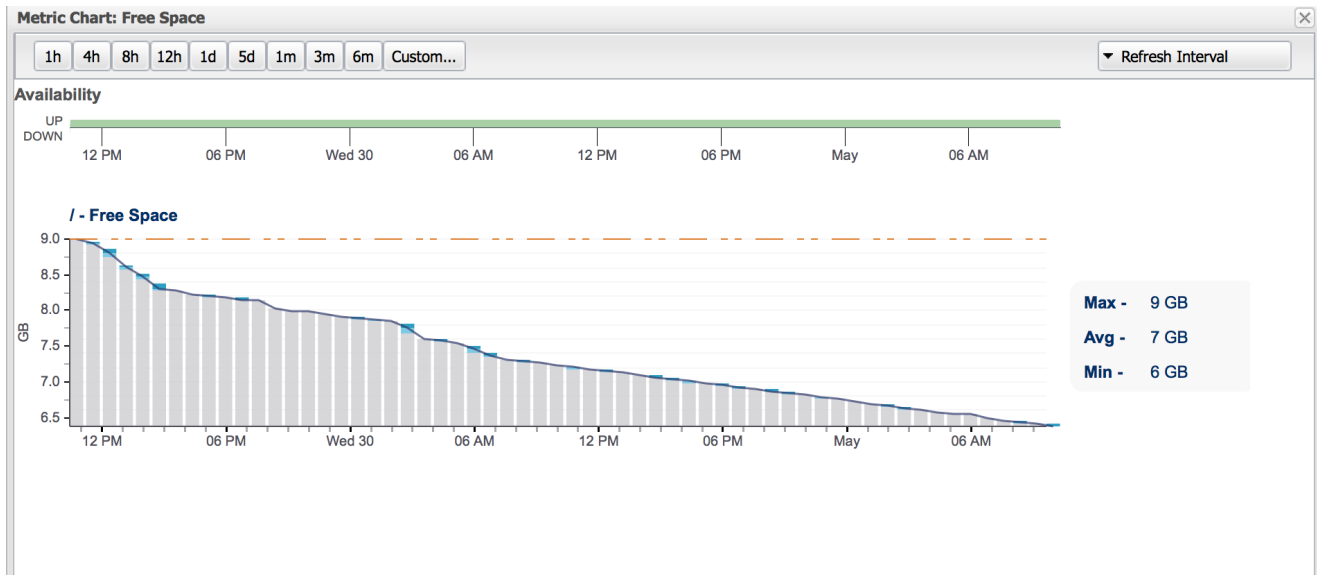
Agent 2



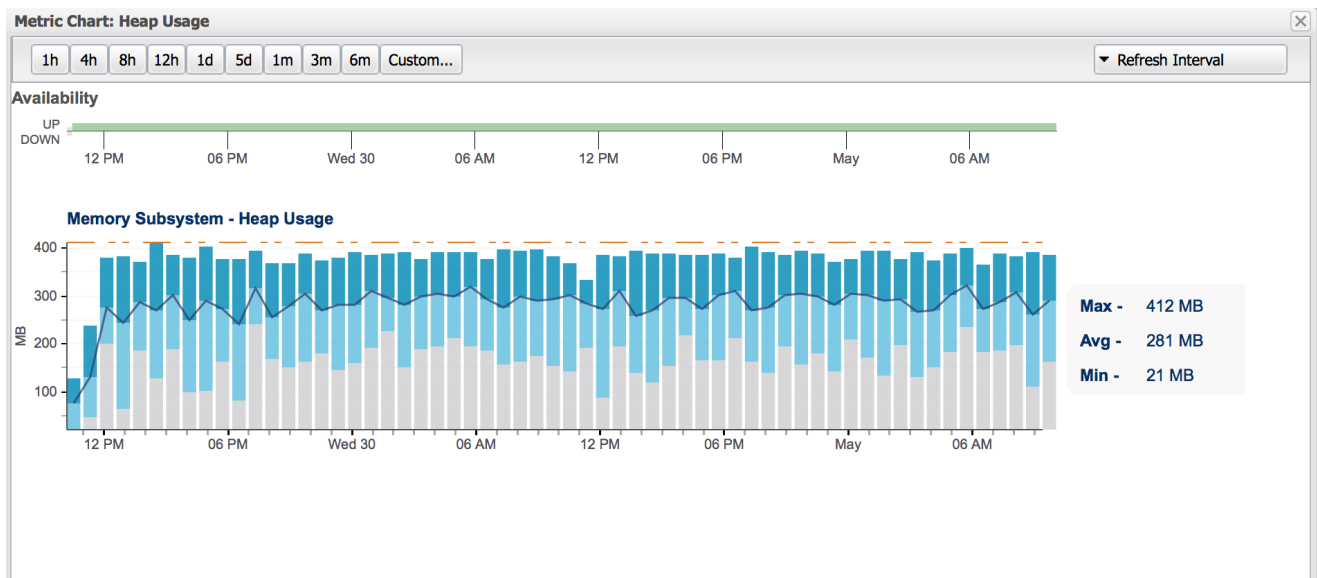


Storage Node





Cassandra JVM



storage node summary

Nodes
Cluster Settings
Cluster Alerts (1)

Back to List
Storage Node (storage-small01.bc.jonqe.lab.eng.bos.redhat.com)

Storage Node Information

Endpoint Address : storage-small01.bc.jonqe.lab.eng.bos.redhat.com

Associated Resource : RHQ Storage Node(storage-small01.bc.jonqe.lab.eng.bos.redhat.com)

Availability : ✔

CQL Port : 9142

JMX Port : 7299

Operation Mode : NORMAL

Cluster Status : NORMAL

Installation Date : April 29, 2014 10:25:08 AM UTC-7

Last Update Time : April 29, 2014 10:25:08 AM UTC-7

Alerts : Unacknowledged Alerts (1)

Note : Everything is ok

Status

Chart	Metric	Minimum	Average	Maximum
	Heap Used	111.8 MB	291.2 MB	400.6 MB
	Heap Percent Used	22.4 %	58.3 %	80.2 %
	Disk Space Used by Storage Node	2.4 GB	2.6 GB	2.7 GB
	Total Disk Space Percent Used	46.0 %	47.2 %	48.0 %
	Data Disk Space Percent Used	11.0 %	12.4 %	13.0 %
	Free Disk To Data Size Ratio	3.8	4.3	4.8
	Ownership	100.0 %	100.0 %	100.0 %
	Number of Tokens	256	256	256

Configuration

Storage Node Specific Settings

Property	Value	Description
Heap Size	512 MB	The maximum (and at the same time starting) heap size. This value will be used with the -Xmx and -Xms JVM options. If you are going to increase/decrease this value, then you should also increase/decrease the new generation proportionally. The value should be an integer with a suffix of M or G to indicate megabytes or gigabytes.
Heap New Size	128 MB	The size of the new generation portion of the heap. This value will be used with the -Xmn JVM option. The value should be an integer with a suffix of M or G to indicate megabytes or gigabytes.
Thread Stack Size	256	The thread stack size. This memory is allocated to each thread off heap. The value should be an integer that will be interpreted in kilobytes.
JMX Port	7299	The JMX port for the RHQ Storage Node

12 Views

There are no comments on this post